

Table Top Ring Cooler Baseline June 29, 2004

Lattice

Four 45 degree Sector Weak focusing
Inter-dipole drift 45.1103 cm
Central Momentum 172.12 MeV/c (muons)
Circumference 3.8086092 m (3rd Harmonic of 201.25 MHz)
Rad. Drift center 54.453 cm
Rad, Magnet center 63.796 cm

Dipoles

45 degree wedge sector dipoles
B0 1.79991T
Vertical Aperture ± 15 cm
Horizontal Aperture ± 20 cm
Particle sagitta 50.10049 cm
Lambda parameter $\lambda=1$

RF

4 cavities (no empty sectors)
Frequency 201.25 MHz
Foil Windows 100 μm Be
Peak on axis field 14 MV/m

Skew Quads 0.18 T per Dipole

Detectors

Sci-Fi (VLPC) 3 stations (3 mm CH2)

Gas 10 atmospheres H₂ at 77 deg K

Injection Single particle injection
a) muons by de/dx
b) protons
c) muons by kicker